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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/RL/17/2020-2021

Date 16.02.2021

GRADATION FOR WMM

Client Agency : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Name of Work : **Sri. R Lokesh,** Contractor, Bangalore.

Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing 16.02.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	215	215	2.2	97.9	95-100
22.4	2542	2757	27.6	72.4	60-80
11.2	2066	4823	48.2	51.8	40-60
4.75	1866	6689	66.9	33.1	25-40
2.36	1185	7874	78.7	21.3	15-30
0.600	845	8719	87.2	12.8	8-22
0.075	1022	9741	97.4	2.6	0-5

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

Date 17.02.2021

ATTERBERG LIMITS TEST FOR WMM

Client Agency : Executive Engineer, RR Naga Division,BBMP, Bangalore.

Name of Work : Sri. R Lokesh, Contractor, Bangalore.
Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: IS 2720(Part 5):1985

Date of Testing 15.02.2021 to 17.02.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	18.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

Date 17.02.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: IS 2720(Part 5):1985

Date of Testing 15.02.2021 to 17.02.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.30	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

Date 17.02.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: IS 2720(Part 5):1985

Date of Testing 15.02.2021 to 17.02.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.80	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

Date 18.02.2021

ATTERBERG LIMITS TEST FOR WMM

Client Agency : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Name of Work : **Sri. R Lokesh,** Contractor, Bangalore.
Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: IS 2720(Part 5):1985

Date of Testing 16.02.2021 to 18.02.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: SCE/BBMP/RL/17/2020-2021

Date 18.02.2021

ATTERBERG LIMITS TEST FOR WMM

Client Agency : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Name of Work : **Sri. R Lokesh,** Contractor, Bangalore.
Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: IS 2720(Part 5):1985

Date of Testing 16.02.2021 to 18.02.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.70	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: SCE/BBMP/RL/17/2020-2021

Date 18.02.2021

ATTERBERG LIMITS TEST FOR WMM

Client Agency : Executive Engineer, RR Naga Division,BBMP, Bangalore.

Name of Work : Sri. R Lokesh, Contractor, Bangalore.
Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: IS 2720(Part 5):1985

Date of Testing 16.02.2021 to 18.02.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.90	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Client : **Executive Engineer,** RR Naga Division,BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: IS 2720(Part 5):1985

Date of Testing 16.02.2021 to 18.02.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.30	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: SCE/BBMP/RL/17/2020-2021

15.02.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer,** RR Naga Division,BBMP, Bangalore.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	15.02.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.5	12.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.8	11.7	
	Combined Flakiness & Elongation index	22.30	24.3	

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

15.02.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: Executive Engineer, RR Naga Division,BBMP, Bangalore.
Agency	: Sri. R Lokesh, Contractor, Bangalore.
Name of Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	15.02.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.5	11.7	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.6	10.8	
	Combined Flakiness & Elongation index	23.10	22.5	

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

15.02.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: Executive Engineer, RR Naga Division,BBMP, Bangalore.
Agency	: Sri. R Lokesh, Contractor, Bangalore.
Name of Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	15.02.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.5	12.8	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.6	10.5	
	Combined Flakiness & Elongation index	23.10	23.3	

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021
Date: 04.03.2021

TEST REPORT

Client	:	**: Executive Engineer,** RR Naga Division,BBMP, Bangalore.
Agency	:	**: Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	:	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	04.03.2021

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	50	Min 45
2	Softening point, ^{0}C	55	Min. 47
3	Ductility at 27^{0}C, cm	>100	Min. 40
4	Flash Point, ^{0}C	254	Min. 220

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Job No.: SCE/BBMP/RL/17/2020-2021

Aggregate Gradation Test
IS : 2386 Part I

04.03.2021

Client	: Executive Engineer, RR Naga Division,BBMP, Bangalore.
Agency	: Sri. R Lokesh, Contractor, Bangalore.
Name of the Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
BIS Code	:IS 2386(Part 1):1963
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	04.03.2021

Total Weight of Sample: 5000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	369	7.38	7.38	92.62	90 - 100	
9.5	485	9.70	17.08	82.92	70 - 88	
4.75	695	13.90	30.98	69.02	53 - 71	
2.36	675	13.50	44.48	55.52	42 - 58	
1.18	545	10.90	55.38	44.62	34 - 48	
0.600	551	11.02	66.40	33.60	26 - 38	
0.300	479	9.58	75.98	24.02	18 - 28	
0.150	335	6.70	82.68	17.32	12 - 20	
0.075	484	9.68	92.36	7.64	4 - 10	

Total Weight of Sample: 5000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	389	7.78	7.78	92.22	90 - 100	
9.5	514	10.28	18.06	81.94	70 - 88	
4.75	585	11.70	29.76	70.24	53 - 71	
2.36	852	17.04	46.80	53.20	42 - 58	
1.18	580	11.60	58.40	41.60	34 - 48	
0.600	574	11.48	69.88	30.12	26 - 38	
0.300	689	13.78	83.66	16.34	18 - 28	
0.150	245	4.90	88.56	11.44	12 - 20	
0.075	336	6.72	95.28	4.72	4 - 10	

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

Aggregate Gradation Test
IS : 2386 Part I

04.03.2021

Client	: Executive Engineer, RR Naga Division,BBMP, Bangalore.
Agency	: Sri. R Lokesh, Contractor, Bangalore.
Name of the Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
BIS Code	:IS 2386(Part 1):1963
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	04.03.2021

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	378	7.56	7.56	92.44	90 - 100	
9.5	475	9.50	17.06	82.94	70 - 88	
4.75	685	13.70	30.76	69.24	53 - 71	
2.36	681	13.62	44.38	55.62	42 - 58	
1.18	532	10.64	55.02	44.98	34 - 48	
0.600	557	11.14	66.16	33.84	26 - 38	
0.300	489	9.78	75.94	24.06	18 - 28	
0.150	336	6.72	82.66	17.34	12 - 20	
0.075	475	9.50	92.16	7.84	4 - 10	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	406	8.12	8.12	91.88	90 - 100	
9.5	554	11.08	19.20	80.80	70 - 88	
4.75	675	13.50	32.70	67.30	53 - 71	
2.36	545	10.90	43.60	56.40	42 - 58	
1.18	575	11.50	55.10	44.90	34 - 48	
0.600	565	11.30	66.40	33.60	26 - 38	
0.300	678	13.56	79.96	20.04	18 - 28	
0.150	265	5.30	85.26	14.74	12 - 20	
0.075	325	6.50	91.76	8.24	4 - 10	

Note:

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Job No.: SCE/BBMP/RL/17/2020-2021

04.03.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer,** RR Naga Division,BBMP, Bangalore.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Bituminous Concrete
Date of Testing	04.03.2021

Sl no	Test	1	2	3	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	10.1	11.5	13.3	Combined Flakiness & Elongation index Max 35%
2	Elongation Index	12.2	10.5	12.9	
	Combined Flakiness & Elongation index	22.30	22.00	26.20	

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the samples recieved in the laboratory

→ Any Query regarding the report must be reported within 30 days from the date of testing.

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

For SAPIENCE CONSULTANTS

Authorised Signatory

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